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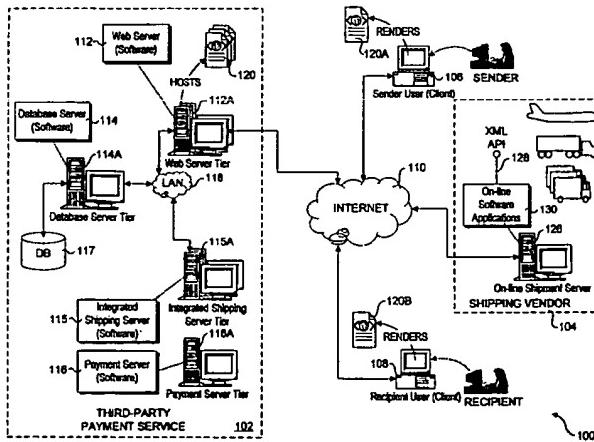
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR FACILITATING SHIPPING VIA A THIRD-PARTY PAYMENT SERVICE



(57) Abstract: An integrated shipping scheme enables users of a third-party payment service to facilitate shipment of packages via a shipping vendor. Web pages corresponding to a web site hosted by the third-party payment service enable a sender to enter ship to: information, while ship from: information may be automatically gathered or manually entered by the sender. The sender is also enabled to enter shipment options, such as package size and weight. Corresponding shipping information is generated and sent "behind the scenes" to a selected shipping vendor. The shipping vendor processes the shipping information, and returns shipment data, including data to generate a shipping label. A web page containing the shipping label is then generated and served to a client operated by the sender, enabling the shipping label to be printed out. At the same time, electronic payment transfer operations are performed to effectively transfer payment from the sender directly to the shipping vendor via the third-party payment service in a manner that is transparent to both the sender and the shipping vendor.

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METHOD AND SYSTEM FOR FACILITATING SHIPPING VIA A THIRD-PARTY PAYMENT SERVICE

CROSS-REFERENCE TO RELATED APPLICATION

[0001] The present application is a continuation-in-part of Application Serial No. 10/465,352, filed June 18, 2003, the benefit of the priority date for which is claimed under 35 U.S.C. § 120.

FIELD OF THE INVENTION

[0002] The field of invention relates generally to electronic commerce and, more specifically but not exclusively relates to a method and architecture that provides a mechanism for enabling users of a third-party (electronic) payment service to arrange and pay for shipment of goods via a shipping vendor using facilities hosted by the third-party payment service.

BACKGROUND INFORMATION

[0003] The past decade has seen a tremendous growth in the use of the world-wide-web (WWW) for online purchases of products and services. In one respect, such products are available via web sites provided by e-commerce merchants, such as electronic retailers. Typically, payment of products purchased from e-commerce merchants are made by means of electronic credit-card transfers. In most instances, the final transaction price reflects a total price for the purchased goods, applicable taxes, and shipping costs to pay for delivery of goods to the buyer. Generally, e-commerce merchants will employ business accounts or the like with one or more shipping companies that facilitate delivery of the goods sold by that merchant. Some smaller merchants may employ shippers on an as-needed basis, paying cash at the point of service.

[0004] Another type of electronic purchase that has seen exponential growth is individual seller-to-buyer transactions (*a.k.a.* person-to-person transactions), wherein neither the seller nor the buyer is a merchant. A common form of this type of transaction is the online auction, such as auctions facilitated by eBay® Corporation, San Jose, California. Third-party online auction hosts, such as eBay®, provide a web-based platform that enables sellers to list and display items for sale, and buyers to bid on the items that are offered. Typically, upon expiration of the auction period or other auction-ending event, the user that has submitted the highest bid "wins" the auction, and thus becomes the buyer. Optionally, the auction can be terminated when a

predetermined bid amount has been received by a user. At this point, both the seller and buyer are apprised of the result of the auction (typically via e-mail), which initiates the physical transfer of the goods to the buyer and payment from the buyer to the seller.

[0005] A typical transfer cycle proceeds as follows. First, a final price is determined that includes the shipping cost. This cost may be set in advance of the auction (*i.e.*, one or more fixed prices listed in the auction for various shipping options), or may be determined on an actual shipping cost basis. In the latter instance, the seller must first determine the shipping costs prior to determining the final price. Depending on the shipping method, shipping price information can generally be obtained from shipping cost tables and the like. Several of the large shipping vendors (*e.g.*, United Parcel Service (UPS), Federal Express, etc.) provide online estimators to assist with this process. After the final price is determined, the seller typically sends in e-mail to the buyer, identifying payment options (these may also be identified via the auction listing). In response, the buyer employs one of the payment options to pay for the item plus the shipping cost.

[0006] Oftentimes, the seller of the auctioned item is an individual, although online auctions are very popular for merchants as well. Most individuals do not have credit-card merchant accounts, so they cannot accept this form a payment. As such, the selected form a payment will generally be limited to a money order, cashier's check, or personal check. Another popular option in this case is to use a third-party payment service, such as PayPal®, Mountain View, California. In this instance, payment may be made electronically directly to the recipient's (seller's) payment service account (and hence to the seller's personal bank account listed with the payment service or to the seller via other forms of payment), either through use of a similar payment service account for the buyer, or via a credit card payment to the payment service.

[0007] Upon receipt and clearance of the payment, the seller will generally go to the selected shipping vendor and pay for the shipment via a cash transaction, since most individual on-line sellers do not have business accounts with shipping companies. This is very time-consuming, often resulting in a delay in the overall transaction process. For example, it may be inconvenient for the seller to go to a selected shipping vendor shortly after being notified that payment has been received for a given sales transaction. Furthermore, this places an extra burden on the seller. In fact, this can be such a burden that many potential auctions are never initiated, since the owners of lower-priced auctionable items consider the "personal" (*i.e.*, non-monetary) cost of facilitating shipment of the items to be too great relative to the auction value of

the items. For example, while a \$10.00 item may only cost \$3.00 to ship, it may not be worth it for a potential seller to spend 30 minutes or more in connection with shipping the item.

SUMMARY OF THE INVENTION

[0008] In accordance with aspects of the present invention, an integrated shipping scheme is disclosed that enables users of a third-party payment service to facilitate shipping transactions in connection with shipment of packages to recipients. After authentication, a user may navigate a web site hosted by the third-party payment service and select to ship a package. Appropriate shipping information is then automatically gathered and/or entered by the sender and sent "behind the scenes" to a selected shipping vendor. The shipping vendor processes the shipping information, and returns shipment data, including data to generate a shipping label to the third-party payment service. A web page containing the shipping label is then generated and served to a client operated by the sender and displayed on a browser screen, enabling the shipping label to be printed out by the sender. To ship an item, the sender merely has to affix the shipping label to an appropriate shipping package (e.g., box) and either drop the package off at one of the shipper's drop-off sites, or have the shipper come to the seller's location to pick up the package. At the same time, electronic payment transfer operations are performed to effectively transfer payment from the sender directly to the shipping vendor via the third-party payment service in a manner that is transparent to both sender and the shipping vendor.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The foregoing aspects and many of the attendant advantages of this invention will become more readily appreciated as the same becomes better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein like reference numerals refer to like parts throughout the various views unless otherwise specified:

[0010] Figure 1a is a schematic diagram illustrating an exemplary infrastructure for supporting third-party payment services with integrated shipping in accordance with one embodiment of the invention;

[0011] Figure 1b is a schematic diagram illustrating generation and transfer of an XML document containing shipping information from a third-party payment service to a shipping vendor in accordance with the infrastructure of Figure 1a;

[0012] Figure 1c is a schematic diagram illustrating receipt of an XML document containing shipment data from the shipping vendor and processing of the shipment data to generate a

confirmation web page hosted by the third-party payment service in accordance with the infrastructure of Figure 1a;

[0013] Figure 1d is a schematic diagram illustrating generation and transfer of an XML document containing shipping confirmation and payment data from the third-party payment service to the shipping vendor in accordance with the infrastructure of Figure 1a;

[0014] Figure 1e is a schematic diagram illustrating receipt of an XML document containing shipment transaction data and an embedded shipping label from the shipping vendor and processing of the XML document to generate a web page hosted by the third-party payment service via which a sender may print out the shipping label in accordance with the infrastructure of Figure 1a;

[0015] Figure 2 is a flowchart illustrating operations and logic performed by software components operated by the third-party payment service to facilitate arrangement and payment of shipment services provided by the shipping vendor in accordance with one embodiment of the invention;

[0016] Figure 3 is a representation of a personal account web page hosted by the third-party payment service that contains a button for launching an integrated shipping process;

[0017] Figure 4a is a representation of a welcome web page containing information for using integrated shipping via an exemplary shipping vendor;

[0018] Figure 4b is a representation of a shipping vendor registration page that contains input fields and controls for entering registration information that is proxied to a corresponding web registration facilities provided by the shipping vendor;

[0019] Figure 5 is a representation of a shipping options web page via which a user may enter shipping information and options pertaining to a shipment;

[0020] Figure 6 is a representation of a shipping confirmation web page via which shipment data are confirmed by the user;

[0021] Figure 7 is a representation of a web page containing a shipping label that may be printed out and attached to a package to be sent via the shipping vendor;

[0022] Figure 8 is a schematic diagram illustrating entities and interactions involved in transferring payments via a credit card network;

[0023] Figure 9 is a flowchart illustrating operations performed during a payment transfer via the credit card network of Figure 8;

[0024] Figure 10a is a representation of the personal account web page of Figure 3, now containing a package tracking option;

[0025] Figure 10b is a representation of a browser display including the web page of Figure 10a and an overlapping tracking summary web page hosted by the shipping vendor;

[0026] Figure 11 is a schematic diagram illustrating a portion of a database schema in accordance with one embodiment of the invention; and

[0027] Figure 12 is a schematic diagram of a computer server that may be employed for various computer servers illustrated in the drawings contained herein.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0028] Embodiments of method and schemes for facilitating integrated shipping via a third party payment service are described herein. In the following description, numerous specific details are set forth, such as transactions performed in the context of an online auction and subsequent payment activities, to provide a thorough understanding of embodiments of the invention. One skilled in the relevant art will recognize, however, that the invention can be practiced without one or more of the specific details, or with other methods, components, materials, etc. In other instances, well-known structures, materials, or operations are not shown or described in detail to avoid obscuring aspects of the invention.

[0029] Reference throughout this specification to "one embodiment" or "an embodiment" means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present invention. Thus, the appearances of the phrases "in one embodiment" or "in an embodiment" in various places throughout this specification are not necessarily all referring to the same embodiment. Furthermore, the particular features, structures, or characteristics may be combined in any suitable manner in one or more embodiments.

[0030] An overview of a network infrastructure 100 for supporting third-party payment services with integrated shipping in accordance with one embodiment of the invention is shown in Figure 1a. The primary entities include a third party payment service 102, a shipping vendor 104, and respective sender and receiver user clients 106 and 108, each of which is linked in communication with other entities via the Internet 110.

[0031] The third-party payment service 102 employs a plurality of software components embodied as software servers that operate in combination to perform various operations, including a web server 112, database server 114, an integrated shipping server 115 and a payment server 116. Database server 114 is used to access data stored in a database (DB) 117. As is well-known in the distributed software arts, servers 112, 114, 115, and 116 represent software components that perform web server, database server, integrated shipping server, and

payment transaction operations, respectively. As such, the servers may be deployed in an *n*-tier environment, wherein one or more computer servers are used to host server software running in each tier. For example, in Figure 1a, web server 112, database server 114, integrated shipping server 115, and payment server 116 are deployed on respective computer servers tiers 112A, 114A, 115A, and 116A comprising computer servers coupled in communication via a local area network (LAN) 118. Optionally, the software server components may be deployed across three, two, or even a single computer server. Under a typical 3-tier architecture, integrated shipping server tier 115A and payment server tier 116A occupy an application server tier (or middle tier), while web server tier 112A (*a.k.a.*, the frontend) corresponds to a first tier and database server tier (*a.k.a.*, the backend) occupies a third tier. Accordingly, integrated shipping server and payment server software components are known as "middleware."

[0032] Web server 112 is used to host a plurality of web pages 120, such as HTML pages. Web server 112 also includes appropriate network interfaces for enabling data to be passed to and received from other entities via Internet 110. For example, data passed between web server 112 and clients 106 and 108 will typically employ the HTTP (hyper-text transport protocol) transport mechanism, wherein respective HTTP interfaces are provided at each of the web server 112 and the clients. Generally, the HTTP interface at each of clients 106 and 108 will be provided by a web browser running on the clients, such as but not limited to Microsoft Internet Explorer and Netscape Navigator. The browsers are used to render web pages 120A and 120B in response to corresponding web page data (*e.g.*, HTML content) received from web server 112. A similar network interface is likewise provided by an on-line shipment server 126 hosted by shipping vendor 104.

[0033] During typical operations, third-party payment service 102 enables payments to be transferred between user parties, such as between a buyer and seller in connection with an online auction. Generally, payment transfer transactions are facilitated via web pages hosted by web server 114, (*e.g.*, web pages 120). In order to receive funds via use of third-party payment service 102, a user must first establish a user account. To open an account, a user will enter registration and authentication information, including a unique user identifier and password, as well as contact information. In most instances, the user will also enter banking information and authorize the third-party payment service to act as an agent for the user with respect to a particular bank account, thereby enabling monetary funds to be received by and transferred from the user's bank account via requests made by the third-party payment service.

[0034] In accordance with aspects of the invention, the foregoing "normal" services provided by the third-party payment service are augmented to include integrated shipping, wherein the payment service 102 operates as a proxy to enable shipping services offered by a selected shipping vendor to be accessed in a manner that does not require the user to directly interface with the shipping vendor. Furthermore, in one embodiment the shipping integration process is performed in a manner that is completely transparent to the shipping vendor as well - that is, from the shipping vendor's perspective, the use of the shipping vendor's on-line access facilities appears the same as if an individual user was accessing those facilities, rather than the third-party payment service. As a result, there are no changes that need to be made to the shipping vendor's on-line infrastructure.

[0035] With reference to Figure 2, a third-party-facilitated shipment transaction process including integrated shipping in accordance with one embodiment proceeds as follows. The process begins in a block 200, wherein a user of the third-party payment service is authenticated through a login process. For example, the user may navigate in a web browser to a web site hosted by the third-party payment service, and then login to the service via an authentication or login web page. Typically, the authentication will involve the aforementioned user identification (userID) and password or passcode. Authentication information is stored in database 117. In response to the values entered by the user, appropriate data from database 117 are retrieved to authenticate the user.

[0036] Once the user is authenticated, the user is enabled to navigate various pages corresponding to the third-party payment service web site. In accordance with operations performed in a block 202, this includes navigation to a shipping center, which in one embodiment may be accessed through a "Merchant Tools" tab on a web page 300 shown in Figure 3. A user may select to arrange for a shipment by selecting a "Ship A Package" link 302 on web page 300. Optionally, the user may select to arrange for shipment via other web pages using similar links or buttons (not shown).

[0037] In response to activation of "Ship A Package" line 302 in block 202, a determination is made in a decision block 204 to whether the user has an existing shipping account. In one embodiment, a separate shipping account is set up for each user to enable the user to access shipping services provided by a corresponding shipping vendor. When multiple shipping vendors are available, a shipping account with separate shipping vendor-specific information (e.g., via vendor-specific tables) is set up. As discussed above, in one embodiment shipping integration is performed in a manner that is transparent to the shipping vendor, such that the

shipping vendor believes it is providing services directly to an individual customer. Accordingly, in order to "trick" the shipping vendor into believing it is interacting with an individual user, a corresponding user account must first be set up with the shipping vendor.

[0038] In one embodiment, user registration with the shipping vendor is provided in a block 206 by employing the third-party payment service as a proxy. Details of how the proxy works are discussed below with reference to the transfer of shipping data and the like. In short, the proxy function works by providing a "front-end" (e.g., web pages) to a user to enable the user to interact with the payment service. At the same time, data entered by the user (e.g., sign-up information) is converted into a predefined format and passed to the shipping vendor via one or more XML (extended markup language) documents. The XML documents are configured to comply with an XML API (application program interface) 128 provided by on-line shipment server 126 to enable interaction between applications 130 running on the on-line shipment server and applications running external to the on-line shipment server (such as applications hosted by third-party payment service 102). Likewise, data is passed back to the third-party payment service from the shipping vendor via XML documents that comply with the XML API.

[0039] A welcome page 400 and exemplary shipping registration page 402 are respectively shown in Figures 4a and 4b. In the illustrated embodiment and the example described below, the shipping vendor is UPS. It is noted that this is not limiting, as the general principles of the invention may be implemented to employ various other shipping vendors as well. Welcome page 400 contains an overview of how integrated shipping is employed from a user perspective. Activation of a "Continue" button 404 advances the user to shipping registration page 402.

[0040] A pair of radio buttons 406 and 408 are displayed in the upper portion of the shipping registration page. If the user does not have an existing vendor shipping account, the user will activate radio button 406. If the user has an existing vendor shipping account, the user will activate radio button 408 and enter the account number in an edit box 410. Optionally, the account number, which has been previously obtained via the process described below, is retrieved from database 117 and is automatically filled in.

[0041] In a middle portion 412 of the page, the user is asked to enter information relating to shipping frequency and requests for less common shipping services, such as whether the user ships hazardous materials, high value good, breakable goods, etc. User-specific information is entered on the lower portion 414 of the page, including contact name, optional contact title, address information, city, state, zip code, and phone number data. In response to activation of a "Continue" button 416 the user is presented with a confirmation screen (not shown) via which the

user confirms the user-entered data. A shipping agreement form (also not shown) is then presented to the user to enable the user to review the shipping agreement offered by the shipping vendor. In response to activation of an "I Agree" button, a request for a new account is submitted behind the scenes to the shipping vendor.

[0042] If the entered data are found to be acceptable, the shipping vendor will issue a new account number. The account number is presented to the user via a registration completion notification page (not shown), while also being stored in database 117 with a link to the user's userID. In one embodiment, a second account number is also issued to enable the user to access UPS' "myUPS.com" services for purposes such as package tracking.

[0043] After registration is complete (or if the user already had an active account), the user is presented with a shipping options page 500 shown in Figure 5 via which shipping information and options are entered in accordance with a block 208. Address information corresponding to shipment recipient address are entered in a recipient address information section 501. This includes a Ship to: edit box 502, first and second street address edit boxes 504A and 504B, a City: edit box 506, a State: pulldown control 508 and a Zip code edit box 510. A radio control group including a residential selection 512 and a business selection 514 enable the user to specify the type of recipient; this information will typically used to determine shipment costs, wherein shipments to businesses may cost less than shipments of the same packages to residential addresses. In one embodiment, the recipient address information also includes an edit box 515 for entering an e-mail address for the recipient.

[0044] Below the recipient shipping information 501 is sender address information 516. Generally, the "Ship From:" address 516 will correspond to either the home or business address listed with the shipping vendor or the primary address listed with the third-party payment service. In one embodiment, a query is made to database 117 to automatically populate sender address information 516 based on the current user session (which includes the userID for the current user) and applicable mode (e.g., use shipping vendor registered address or use third-party payment service primary address). In cases in which multiple addresses are registered, a list of those addresses displayed opposite respective radio buttons will be displayed to the user to enable the user to select a ship from address via selection of its corresponding radio button.

[0045] In one embodiment, activation of a "New Address" button 518, enables a user to manually enter ship from information. For example, if a user was away from his home or business and wanted to use the shipment service the user would enter a ship from address that was different than the user's registered address. Activation of "New Address" button will launch

a pop-up dialog containing edit controls similar to those provided in recipient address information section 501.

[0046] Shipping parameters and shipping option data are entered or selected via various edit boxes and pull-down controls in the "Shipment Options" section 520. The parameters and options include a shipping service type via a pull-down control 522, a Saturday delivery option checkbox 524, a packaging type via a pull-down control 526, a package weight via an edit box 528, and package dimensions via edit boxes 530, 532, and 534. An optional insured value may be entered in an edit box 536, while an optional e-mail message to the recipient may be entered in an edit box 538.

[0047] After the shipping information has been entered via shipping options page 500, the user will activate a continue button 540. In response, web server 112 will pass the underlying data 132 to integrated shipping server 115 to begin performing the operations of block 210. During these operations, integrated shipping server 115 generates an XML document 134 containing the shipping information, options, and the user's vendor account information (*e.g.*, SVuserID 136 retrieved from database 117), as shown in Figure 1b. The XML document is structured to comply with XML API 128, which in this exemplary embodiment comprises an API that enables companies to interact with UPS' on-line services in a transparent fashion. In other words, from the perspective of on-line software applications 130, data received by the applications have been input via UPS' normal on-line data input facility (*i.e.*, web pages hosted by the UPS web site). This scheme enables external applications effectively to function as proxies for UPS' own web pages. The net result is that no changes need to be made to on-line software applications 130 to enable external application to access the shipping vendor's on-line shipment services.

[0048] Once XML document 134 is generated, it sent from integrated shipping server 115 (via a server computer in integrated shipping server tier 115A) to shipping vendor 104 via on-line shipment server 126. In one embodiment, the HTTPS (Hyper-Text Transport Protocol Secure) protocol is employed for the transport. Generally, communications between shipping server tier 115A and on-line shipment server 126 may be over a public (*e.g.*, Internet) or private (*e.g.*, VPN (virtual private network) or dedicated link) network. Upon receipt of XML document 134, XML API 128 is employed to (effectively) automatically fill in appropriate data fields corresponding to virtual web pages hosted via on-line applications 130. One of the applications then calculates a shipping costs based on the input data (generally based on size and weight of the package in combination with the number of zones spanned by the Ship From: and Ship To:

addresses, plus any miscellaneous charges such as optional insurance) in a block 210A. Additionally, an XML document 138 containing shipment data including the shipping cost is generated and passed back to third-party payment service 102 via integrated shipping server 115, as shown in Figure 1c.

[0049] Upon receiving XML document 138, shipment data 140 is extracted and provided to web server 112 in a block 212. The web server then generates a confirmation page 600 shown in Figure 6 and serves the page to sender client 106 in a block 214. Confirmation page 600 includes a verification of the Ship To: and Ship From: addresses in an Address Information section 602, and various details relating to the shipment in a Shipment Details section 604. These details include a payment method, selected service, package type, package weight and dimensions, and shipping cost. To confirm the order, the sender activates a "Complete Shipping Order" button 606.

[0050] In response to the confirmation, web server 112 passes corresponding data to integrated shipping server 115, which generates an XML document 142 containing confirmation and payment information and sends the XML document to shipping vendor 104 in accordance with a block 216, as shown in Figure 1d. In keeping with the idea of shipping vendor transparency, the payment information may conform to a payment type accepted by the shipping vendor. In one embodiment, a credit account is maintained by the third-party payment service with the shipping vendor, and thus the payment information comprises a credit account identifier (e.g., an account number). Under another embodiment, each shipment payment transaction is handled as an individual account, wherein payment is made using a normal payment facility accepted by the shipping vendor.

[0051] In accordance with this latter scheme, each integrated shipping user is assigned a unique "hidden virtual debit card" (HVDC). From the shipping vendor's perspective, the HVDC operates like an ordinary debit or credit card, enabling the vendor to settle the transaction in the manner normally handled for settlement for debit and credit card transactions, as described below in further detail with reference to Figures 8 and 9. The HVDC is termed "hidden" because the integrated shipping user is unaware of its use or existence. The HVDC is termed "virtual" because it does not correspond to a physical debit card (no such card may ever be produced), but rather corresponds to a virtual card that only exists in the computer systems of the debit card issuer, payment service, and shipping vendor. As depicted in Figure 1d, the user's HVDC 143 is retrieved from database 117 to be included in XML document 142.

[0052] Upon receipt of XML document 142, the document's data are extracted via XML API 128 and the payment is authorized by the shipping vendor via the Debit/Credit card authorization/settlement infrastructure described below. An XML document 144 containing shipment transaction data including an embedded shipping label 146 is then generated and returned to third-party payment service 102. In a block 218, XML document 144 is received and the embedded shipping label and transaction data are extracted and passed to web server 112. A shipping label page 700 shown in Figure 7 is then generated by web server 112 in a block 220 and served to sender client 106. Additionally, transaction data, including a shipment tracking number 147 are stored in database 117.

[0053] Shipping label page 700 contains a printable shipping label 146A derived from shipping label data 146. Typically, the shipping label data will be in a conventional graphic format that can be rendered by a web browser, such as a binary bitmap, TIFF, Adobe PDF, etc. If necessary, an appropriate plug-in for rendering the shipping label will be provided to the recipient client (e.g., via a download link or the like). To complete the shipment transaction process (from the sender's point of view), the sender will activate a "Print Label" button 700, causing the web page to be printed out on a printer 148. A printed label 146B is then applied to a package 150, and the package is either dropped off or picked up by personnel working for the shipping vendor.

[0054] Continuing with the flowchart of Figure 2, the next operation is performed in a block 222, wherein the shipping cost is settled with the shipping vendor. Further details of settlement and the foregoing authorization process of block 216A are illustrated in Figures 8 and 9. The process begins in a block 900, wherein a cardholder 800 initiates payment for a purchase (of shipping services) from a merchant 802 (the shipping vendor). This action is performed behind the scenes via payment server 116, which presents a hidden virtual debit card comprising a 16-digit MasterCard on behalf of the user to the merchant (UPS) via a private banking network (not shown). In a block 902, the merchant submits an authorization request to the authorization/settlement network. This includes three sub-operations, beginning in a block 902A, wherein a merchant acquiring bank 804 passes an authorization request to the debit/credit card network 806. In a block 902B, the network (Mastercard in this example) passes the authorization request to the debit card issuing bank 808, which in this case is third-party payment service 102 (e.g., PayPal®). The issuing bank then interfaces with an issuer processor 810 to approve or deny the authorization request in a block 902C. This decision is made, in part by retrieving user account balance information and/or other user-related

information from database 117 to verify whether sufficient funds are available to pay for the purchase. If the user account is insufficient, a web page is launched to enable the user to add more funds to his account (not shown).

[0055] In a block 904, the authorization response is return to merchant 802. This also involves three sub-operations, beginning with a block 904A, wherein issuing bank 808 returns the authorization response to network 806. In a block 904B the network returns the authorization response to merchant acquiring bank 804. Finally, in a block 906C the merchant acquiring bank returns the authorization response to merchant 802.

[0056] Next, if the authorization is approved, the merchant notes the transaction is a "card not present" transaction, meaning no cardholder signature is available (e.g., an Internet-based transaction) in a block 906. The merchant then stores a virtual sales draft in a block 908. Subsequently, the merchant submits a batch of transactions for settlement in a block 910. Batch settlement is typically performed on a periodic basis, such as at the end of the business day.

[0057] The following day (typically), in a block 912 merchant acquiring bank 804 sends the transactions to network 806 and obtains payment for its transactions, less interchange fees and processing fees. Later that day, or the next day, the network sends transactions to issuing bank 808 and obtains funding for those transactions in a block 914. Interchange fees are added to the received funds, minus processing fees. Subsequently, the issuing bank funds the purchases less interchange fees, returns, and chargebacks and posts transactions to the cardholder (*i.e.*, senders) account with third-party payment service 102 via payment server 116. The process is completed in a block 916, wherein the acquiring bank 804 credits merchant 802 for purchases, minus interchange fees, credit vouchers (representing returns), chargebacks (representing issuer or cardholder disputes), network fees, and its own acquiring fees.

[0058] Returning to Figure 2, the last operation of the shipment transaction process is performed in a block 224, wherein the shipping cost is deducted from the sender's account with the third-party payment service. This is accomplished by storing data in database 117 that reflects the hidden virtual debit cards transactions for each integrated shipping user, and then adjusting each user's account balance based on the HVDC transactions made by that user. The timing of this operation relative to settlement is a matter of choice, meaning it may occur before or after (illustrated) shipping vendor settlement. In one embodiment, a user's account available balance is adjusted in response to an approved authorization. If settlement does not occur within a predetermined timeframe, the authorization is revoked, canceling the transaction, and the user's available account balance is adjusted to its prior value.

[0059] In addition to facilitating the arrangement of shipping goods, in one embodiment integrated shipping further provides a mechanism for a user to track shipments via the third-party payment service. As before, the third-party payment service functions as a proxy to enable access to shipment tracking data maintained by the shipping vendor using the aforementioned XML data transfer scheme.

[0060] An exemplary use of the shipment-tracking feature is shown in Figures 10a and 10b. This time, when the user navigates to a review his or her personal account information, a personal accounts page 300A is rendered. "Action" column 306 now contains a "Track Package" button 300. In response to activation of this button, the tracking number for the corresponding transaction is retrieved from database 117, and web server 112 navigates to the shipment tracking page on UPS' web site and enters the retrieved tracking number. The web server 112 then directs the UPS web server to serve a resulting tracking summary page 312 to client 106, as shown in Figure 10b. At this point, the user may access further features provided by the UPS site.

[0061] In addition, an e-mail containing a link to a shipment tracking page with a pre-populated tracking number may be sent to the recipient at the time of shipment. For example, a sender may want to apprise a recipient via an e-mail that he or she will be receiving a shipment, with a convenient link to track the shipment. The recipient's e-mail address that was previously entered in edit box 515 is retrieved from the database and an e-mail message is automatically generated containing the link.

[0062] In general, data related to vendor shipping accounts, shipments, payment transactions, and users will be stored in database 117. Typically, database 117 may comprise a relational database management system (RDBMS) database, such as SQL (structured query language) database. Accordingly, database server 114 may comprise a SQL RDBMS database server, such as database server products provided by Oracle (e.g., 8i or 9i), IBM (DB2), Sybase, Informix, and Microsoft (e.g., SQL Server 7 or 2000).

[0063] A portion of an exemplary database schema 1100 for implementing data storage aspects of the invention is shown in Figure 11. Central to database schema 1100 is an ACCOUNT table 1102. Each of USER table 1104, SHIPPING_USER table 1106, TRANSACTION table 1108, and SHIPMENT table 1110 is linked to ACCOUNT table 1102 via respective relationships 1112, 1114, 1116, and 1118. A SHIPPING_USER_UPS table 1120 is linked to SHIPPING_USER table 1106 via a relationship 1122. A SHIPMENT_UPS table 1124 is linked to SHIPMENT table 1110 via a relationship 1126, while an ADDRESS table 1128 is linked to USER table 1104 via a relationship 1130. In addition, SHIPMENT table 1110 is linked

to TRANSACTION table 1108 via a relationship 1132, to SHIPPING_USER table 1106 via a relationship 1134, and to ADDRESS table 1128 via a relationship 1136.

[0064] Basic user account information, including a primary key user account number is stored in ACCOUNT table 1102. Detailed user information is stored in USER table 1104, while user address information is stored in ADDRESS table 1128. Payment transaction data are stored in TRANSACTION table 1108.

[0065] Integrated shipping user information is stored in SHIPPING_USER table 1106, including information identifying the user's account number (the foreign key link to ACCOUNT table 1102, and shipping vendors for which the user has an account. A daily tabulation (daily_tab) is maintained for each user to limit the amount of shipment purchases users may have during a single day to a predetermined limit. The purpose of this purchase limit is to prevent fraudulent use of the account.

[0066] SHIPPING_USERS_UPS table 1120 is exemplary of a shipping vendor user table in which vendor-relating account data are stored. For example, SHIPPING_USER_UPS table 1120 contains an account profile section 1138 in which shipping vendor account data are stored, including a user_id, password, along with optional company and contact information.

[0067] Data related to shipments are stored in SHIPMENT table 1110. These data include basic shipment information, such as vendor, weight, monetary value, transportation value, etc., and shipper/shippee (*i.e.*, sender/recipient in the foregoing examples) information, including account numbers, transactions id's and address id's. It is noted that if the shipment recipient (the shippee) does not have an account with third-party payment service 102, no shippee account number and address id will be stored.

[0068] Shipment data particular to the shipping vendor is stored in SHIPMENT_UPS table 1124. In one embodiment, these data include packaging options, package dimensions, tracking number, shipping options, a shipping label (as a BLOB datatype), and a shipper id. Generally, a respective pair of tables similar to SHIPPING_USER_UPS table 1120 and SHIPMENT_UPS table 1124 will exist for each shipping vendor, and will include data fields particular to that shipping vendor.

[0069] In the foregoing examples, data was passed between the third-party payment service and the shipping vendor using an XML data-exchange mechanism. This is not meant to be limiting, but merely illustrative of one means for exchanging data. Other data-exchange techniques may also be employed, such as proprietary techniques, text-based techniques, database data-exchange, etc.

Exemplary Computer Server System

[0070] With reference to FIGURE 12, a generally conventional computer server 1200 is illustrated that is suitable for use in connection with practicing the embodiments of the invention discussed herein. For example, computer server 1200 may be used for running web server 112, database server 114, integrated shipping server 115, payment server 116, and on-line software applications 130. Examples of computer servers that may be suitable for these purposes include stand-alone and enterprise-class servers operating UNIX-based and LINUX-based operating systems, as well as servers running the Windows NT or Windows 2000 Server operating systems.

[0071] Computer server 1200 includes a chassis 1202 in which is mounted a motherboard 1204 populated with appropriate integrated circuits, including one or more processors 1206 and memory (e.g., DIMMs or SIMMs) 1208, as is generally well known to those skill in the computer arts. The motherboard and various peripheral devices described below are powered by a power supply (not shown). A monitor 1210 is included for displaying graphics and text generated by software programs and program modules that are run by the computer server. A mouse 1212 (or other pointing device) may be connected to a serial port (or to a bus port or USB port) on the rear of chassis 1202, and signals from mouse 1212 are conveyed to the motherboard to control a cursor on the display and to select text, menu options, and graphic components displayed on monitor 1210 by software programs and modules executing on the computer, such as the web pages illustrated herein. In addition, a keyboard 1214 is coupled to the motherboard for user entry of text and commands that affect the running of software programs executing on the computer. Computer server 1200 also includes a network interface card (NIC) 1216, or equivalent circuitry built into the motherboard to enable the server to send and receive data via a network 1218.

[0072] File system storage corresponding may be implemented via a plurality of hard disks 1220 that are stored internally within chassis 1202, and/or via a plurality of hard disks that are stored in an external disk array 1222 that may be accessed via a SCSI card 1224 or equivalent SCSI circuitry built into the motherboard. Optionally, disk array 1222 may be accessed using a Fibre Channel link using an appropriate Fibre Channel interface card (not shown) or built-in circuitry.

[0073] Computer server 1200 generally may include a compact disk-read only memory (CD-ROM) drive 1226 into which a CD-ROM disk may be inserted so that executable files and data on the disk can be read for transfer into memory 1208 and/or into storage on hard disk 1220.

Similarly, a floppy drive 1228 may be provided for such purposes. Other mass memory storage devices such as an optical recorded medium or DVD drive may also be included. The machine instructions comprising the software components that cause processor(s) 1206 to implement the operations of the present invention that have been discussed above will typically be distributed on floppy disks 1230 or CD-ROMs 1232 (or other memory media) and stored in one or more hard disks 1220 until loaded into memory 1208 for execution by processor(s) 1206. Optionally, the machine instructions may be loaded via network 1218 as a carrier wave file.

[0074] Thus, embodiments of this invention may be used as or to support software components executed upon some form of processing core (such as the CPU of a computer) or otherwise implemented or realized upon or within a machine-readable medium. A machine-readable medium includes any mechanism for storing or transmitting information in a form readable by a machine (*e.g.*, a computer). For example, a machine-readable medium can include such as a read only memory (ROM); a random access memory (RAM); a magnetic disk storage media; an optical storage media; and a flash memory device, *etc.* In addition, a machine-readable medium can include propagated signals such as electrical, optical, acoustical or other form of propagated signals (*e.g.*, carrier waves, infrared signals, digital signals, *etc.*).

[0075] The above description of illustrated embodiments of the invention, including what is described in the Abstract, is not intended to be exhaustive or to limit the invention to the precise forms disclosed. While specific embodiments of, and examples for, the invention are described herein for illustrative purposes, various equivalent modifications are possible within the scope of the invention, as those skilled in the relevant art will recognize.

[0076] These modifications can be made to the invention in light of the above detailed description. The terms used in the following claims should not be construed to limit the invention to the specific embodiments disclosed in the specification and the claims. Rather, the scope of the invention is to be determined entirely by the following claims, which are to be construed in accordance with established doctrines of claim interpretation.

Claims:

1. A system comprising:
 - a web server; and
 - an integrated shipping server, linked in communication the web server,
 - the web server and integrated shipping server comprising software instructions that when executed enable a seller to arrange for shipment of a package to a buyer via a shipping vendor by performing operations, including:
 - generating and serving web pages via which shipping information pertaining to the shipment may be automatically entered and/or manually entered by the seller; and
 - interacting with an on-line interface hosted by the shipping vendor to arrange for shipment of the package via the shipping vendor through use of the shipping information.
2. The system of claim 1, wherein shipment of the package relates to a sale of an item to a buyer, and wherein execution of the software instructions further performs the operations of:
 - retrieving sales transaction information;
 - extracting shipping information from the sales transaction information; and
 - automatically entering shipping information into at least one web page.
3. The system of claim 1, further comprising a payment server linked in communication with the integrated shipping server and comprising software instructions that when executed performs the operation of facilitating payment for the shipment from the seller to the shipping vendor.
4. The system of claim 3, wherein the system is configured to be operable by a third-party payment service for which the seller has an account, and facilitating payment of the shipment comprises:
 - providing payment from the third-party service to the shipping vendor; and
 - deducting a shipping cost of the shipment from the seller's third-party payment service account.
5. The system of claim 4, wherein payment from the third-party service to the shipping vendor is facilitated via interaction between the payment server and a debit/credit card authorization/settlement network.

6. The system of claim 5, wherein execution of the software instructions further performs the operations of:

generating a virtual debit card; and
employing the virtual debit card to pay the shipping vendor.

7. The system of claim 1, wherein execution of the software instructions further performs the operation of performing a proxy operation to enable the seller to obtain a shipping account with the shipping vendor via interaction with web pages served by the web server.

8. The system of claim 1, wherein execution of the software instructions further performs the operations of:

storing a tracking number corresponding to the shipment that is received from the shipping vendor;
automatically navigating, via a proxy operation, to a web site hosted by the shipping vendor and entering the tracking number; and
directing a web server hosting the web site to send a tracking summary page generated in response to entry of the tracking number to a client computer operated by the seller.

9. A system comprising:

a web server; and
an integrated shipping server, linked in communication with the web server,
the web server and integrated shipping server comprising software instructions that when executed enable a sender to arrange for shipment of a package to a recipient via a shipping vendor by performing operations, including:

generating and serving web pages via which shipping information pertaining to the shipment may be automatically entered and/or manually entered by the sender; and
interacting with an on-line interface hosted by the shipping vendor to arrange for shipment of the package via the shipping vendor through use of the shipping information;
receiving shipping data pertaining to the shipment from the shipping vendor, said shipping data including data corresponding to a shipping label; and
generating and serving a web page via which the shipping label may be printed.

10. The system of claim 9, wherein execution of the software instructions further perform the operation of performing a proxy operation to enable the seller to obtain a shipping account with the shipping vendor via interaction with web pages served by the web server.

11. The system of claim 9, wherein execution of the software instructions further perform the operations of:

storing a tracking number corresponding to the shipment that is received from the shipping vendor;

automatically navigating, via a proxy operation, to a web site hosted by the shipping vendor and entering the tracking number; and

directing a web server hosting the web site to send a tracking summary page generated in response to entry of the tracking number to a client computer operated by the seller.

12. A method comprising:

enabling, via a third-party payment service, a first party to arrange for shipment of a package to a second party via a shipping vendor; and

facilitating payment from the first party to the shipping vendor for the shipment via the third-party payment service.

13. The method of claim 12, wherein payment of the shipment is facilitated by:

providing payment from the third-party service to the shipping vendor; and

deducting a shipping cost of the shipment from a third-party payment service account held by the first party.

14. The method of claim 13, wherein payment from the third-party service to the shipping vendor is facilitated via a debit/credit card authorization/settlement network.

15. The method of claim 14, wherein the payment from the third-party service to the shipping vendor employs the use of a virtual debit card.

16. The method of claim 12, further comprising providing a computer interface via the third-party service that functions as a proxy to enable a user to obtain a shipping account with the shipping vendor.
17. The method of claim 12, further comprising providing data to a computer operated by the first party to enable a shipping label to be rendered by the computer and printed out on a printer.
18. The method of claim 12, further comprising enabling the first party to view tracking information related to shipment of the package via the third-party payment service.
19. The method of claim 18, wherein the third-party payment service enables the first party to view tracking information by:
 - automatically navigating, via a proxy operation, to a web site hosted by the shipping vendor and entering a tracking number; and
 - directing a web server hosting the web site to send a tracking summary page generated in response to entry of the tracking number to a client computer operated by the first party.
20. A method comprising:
 - enabling, via a web site hosted by a third-party payment service, a sender party to arrange for shipment of a package to a recipient party via a shipping vendor;
 - interacting with an online facility hosted by the shipping vendor to facilitate the shipment; and
 - facilitating, via the third-party payment service, payment from the sender party to the shipping vendor for the shipment.
21. The method of claim 20, wherein the arranging for the shipment of the package includes:
 - serving a first set of web pages including one or more web pages to a client operated by the sender party via which the sender party may enter shipping information;
 - passing the shipping information entered by the sender party to an on-line interface provided by the shipping vendor;
 - receiving shipment data generated by the shipping vendor in response to the passing of the shipping information; and

providing the shipment data to the sender party via a second set of web pages including one or more web pages.

22. The method of claim 21, wherein data is passed between the third-party payment service and the shipping vendor in the form of XML (extensible markup language) documents, and the on-line interface comprises an XML application program interface (API).

23. The method of claim 21, wherein the shipping information includes send to: address information that may be entered by the sender party via a corresponding web page.

24. The method of claim 21, wherein the shipping information includes send from: address information that may be entered by the sender party via a corresponding web page.

25. The method of claim 21, wherein the shipping information includes send to: address information that pertains to an address registered with one of the shipping vendor or third-party payment service that is automatically retrieved from a database.

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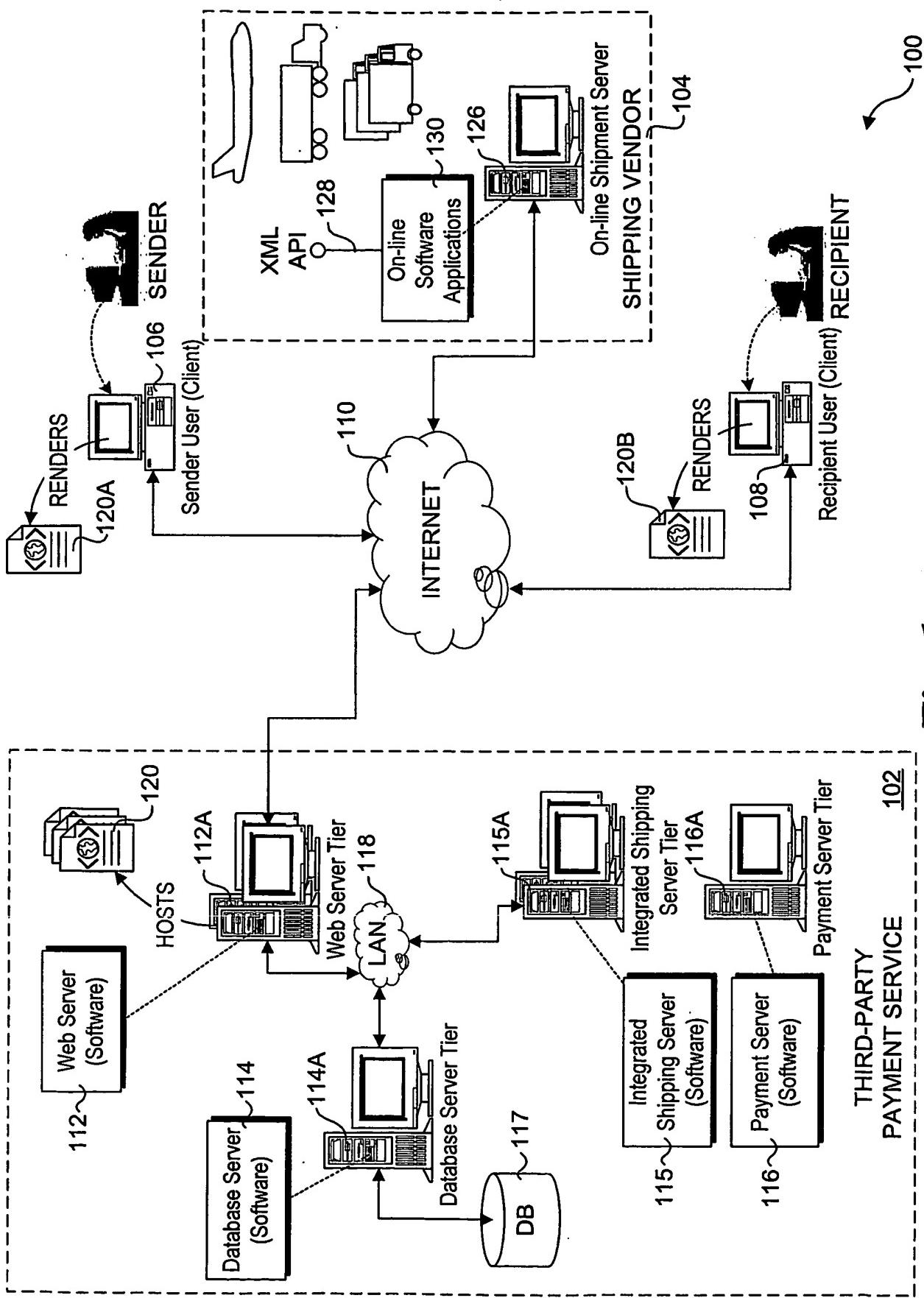


Fig. 1a

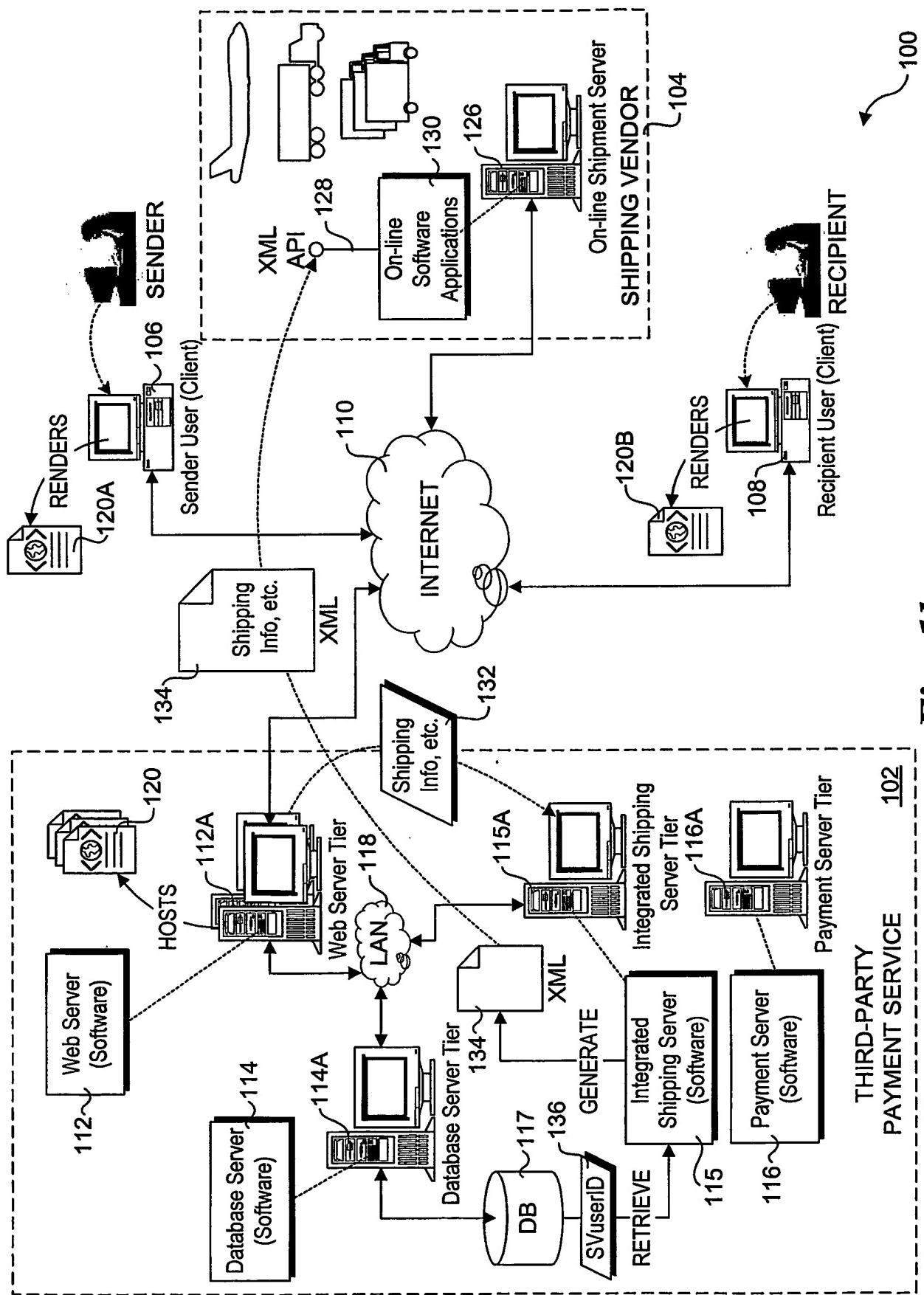
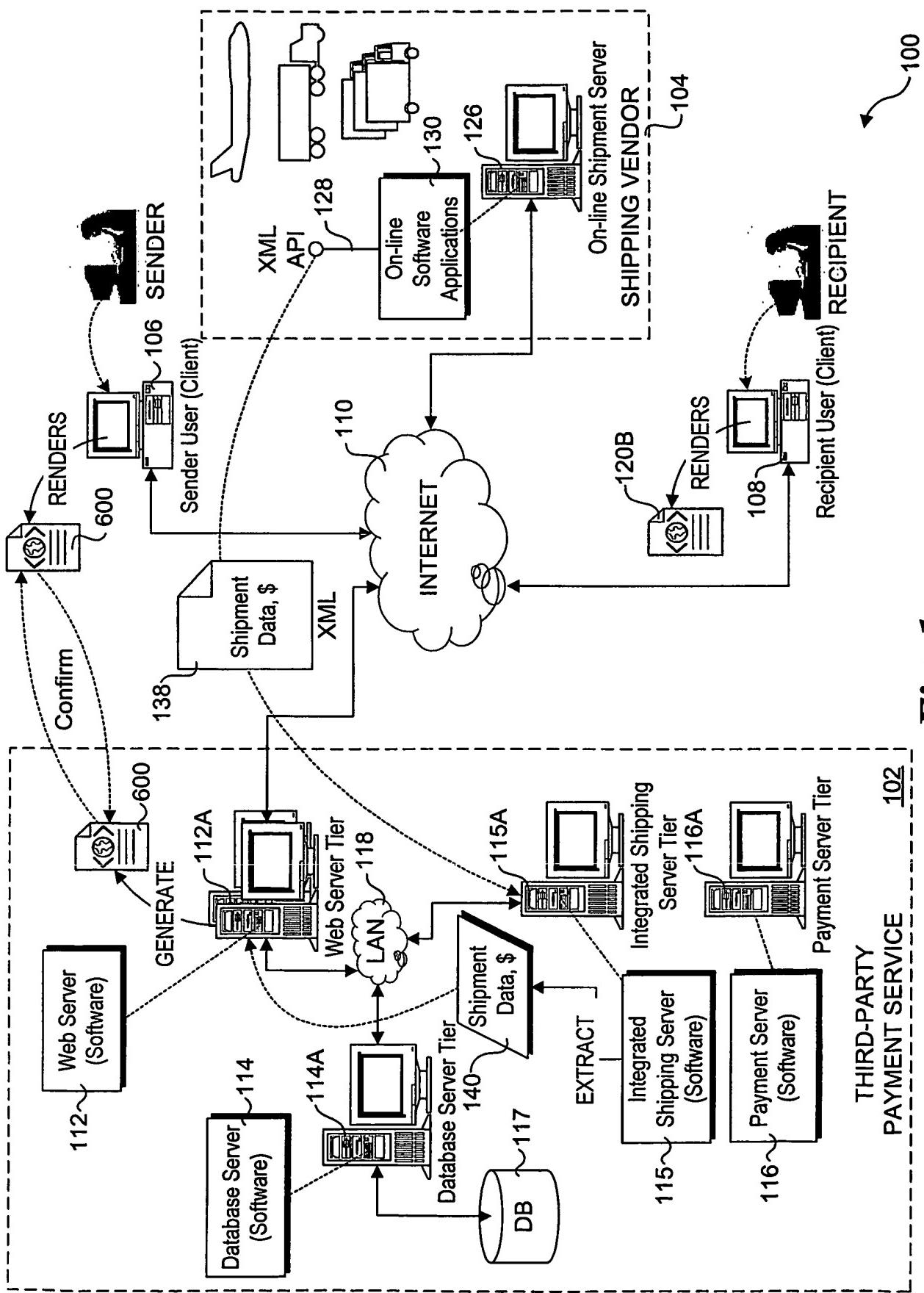


Fig. 1b



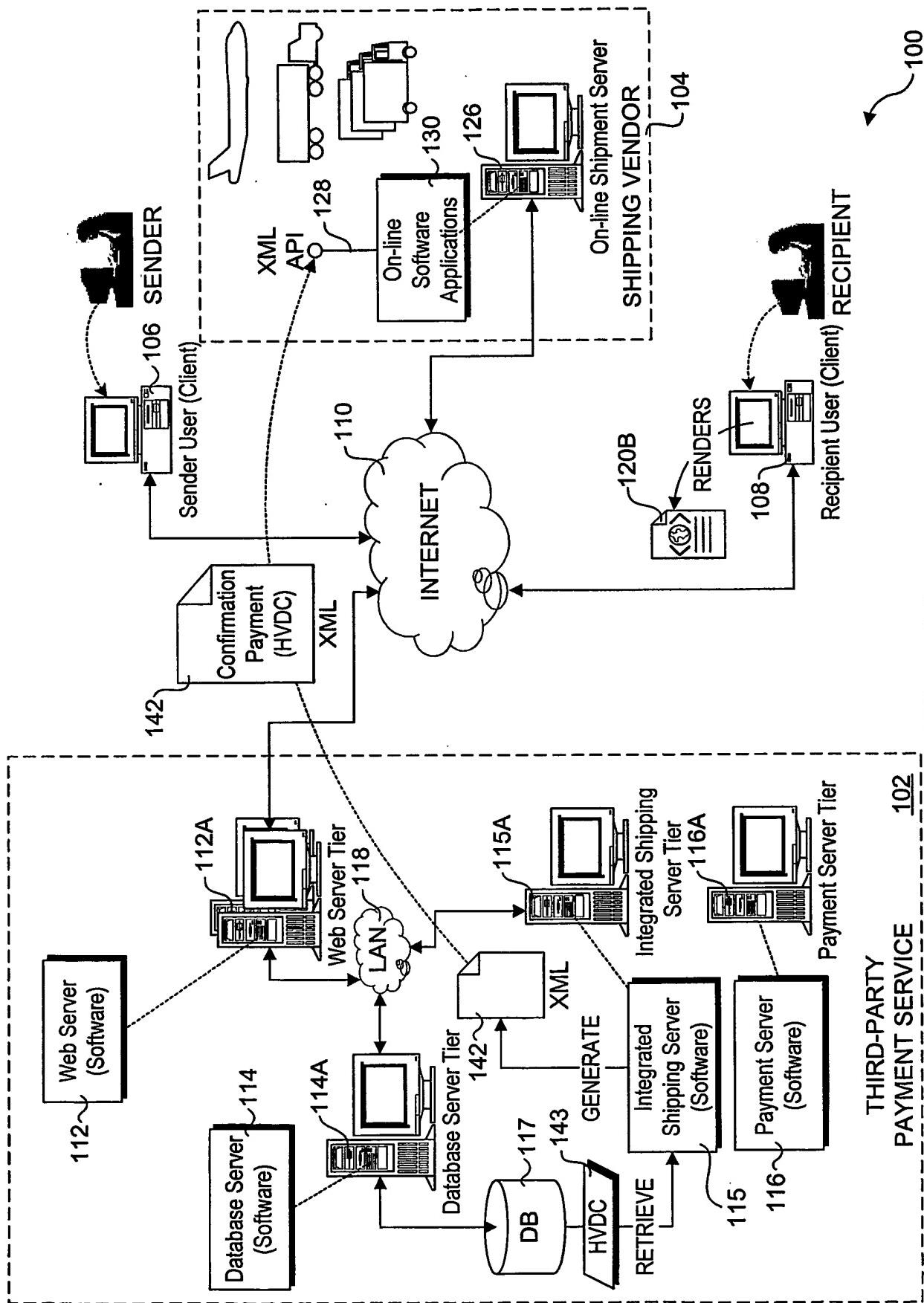


Fig. 1d

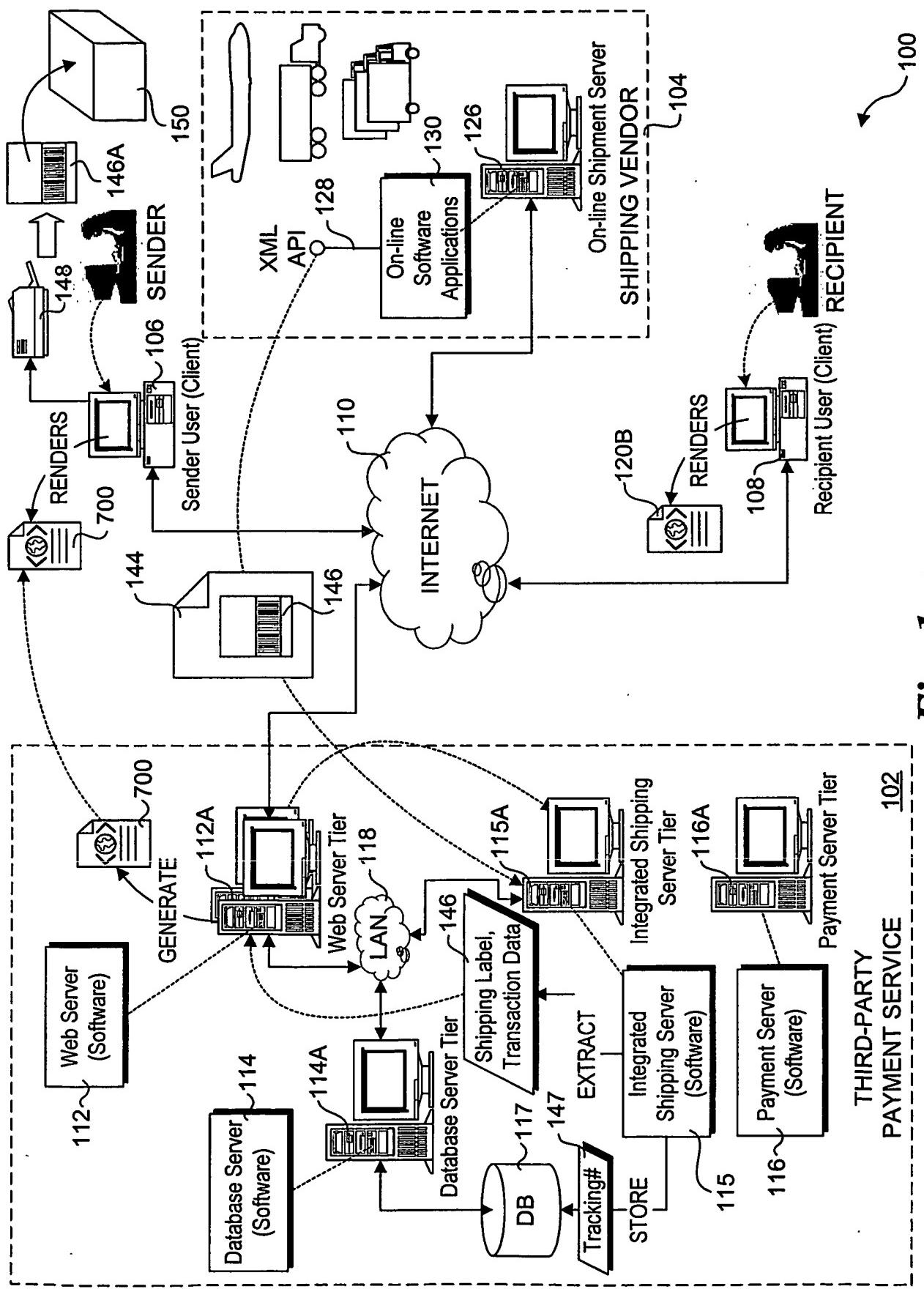
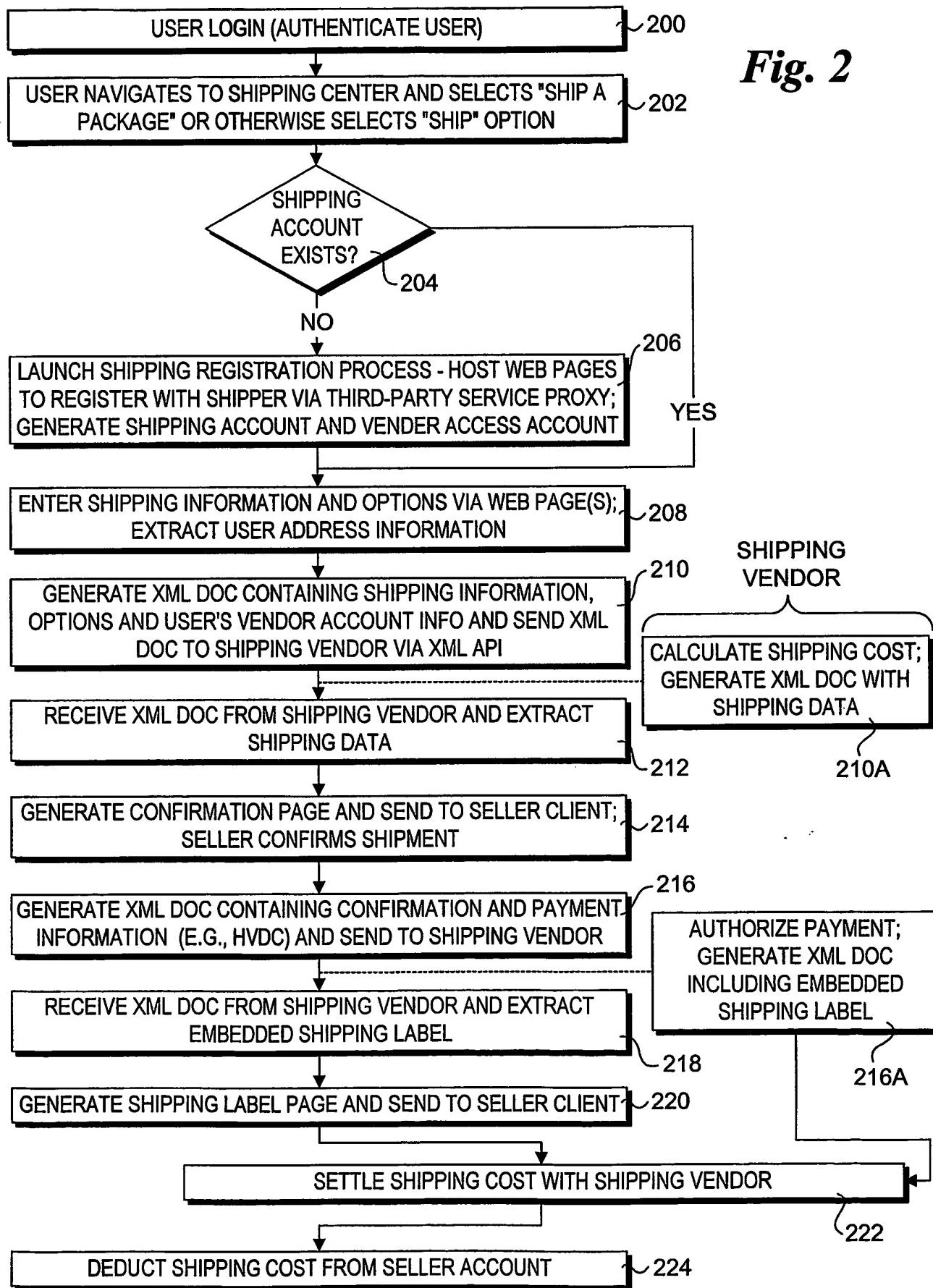


Fig. 1e



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PayPal®

[Log Out](#) | [Help](#)

[My Account](#) [Send Money](#) [Request Money](#) [Merchant Tools](#) [Auction Tools](#)

PayPal Shipping Center

Now you can create pre-paid shipping labels for all of your packages, directly from your PayPal account. We're proud to introduce UPS as our first carrier. Benefits:

[See Demo](#)

Here's how it works:

1. Pack your item in your own packaging or in UPS packaging
2. Weigh and measure your package
3. Create a UPS Shipping label online with your PayPal account
4. Your PayPal account will be charged the UPS Shipping fee
5. Print your UPS Shipping label and attach it to your package
6. Your package is ready to go! Just drop it off at any authorized UPS location or hand it to a UPS driver



Ship A Package

302

eBay Sellers: To ship an item sold on eBay, use PayPal's Auction Manager.

+ Your printer must produce labels that are clear enough to be scanned correctly. [Learn more](#)

300

Fig. 3

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Welcome to PayPal Shipping with UPS

Use PayPal Shipping with UPS to simplify your shipping. Create UPS shipping labels and manage your shipments from your PayPal account. Benefits:

- Easily coordinate shipments and payments
- Automatically qualify for our Seller Protection Policy on items under \$250
- Both you and your buyer can track your package from your PayPal accounts
- Ship directly from your home or office

You may also modify your shipping preferences to select for which types of transactions the ship button will appear.

Here's how it works:

1. Pack your item in your own packaging or in UPS packaging
2. Weigh and measure your package
3. Create a UPS Shipping label online with your PayPal account
4. Your PayPal account will be charged the UPS Shipping fee
5. Print your UPS Shipping label and attach it to your package
6. Your package is ready to go! Drop it off at UPS or call 1-800-PICK-UPS for a pickup

Click Continue to register and start shipping today.*

* Your printer must produce labels that are clear enough to be scanned correctly. Learn more.
At this time, PayPal Shipping with UPS is available only for transactions in which both the sender and recipient are in the United States.

Fig. 4a

400

Local Intranet

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PayPal

Register for PayPal Shipping with UPS

My Account | Send Money | Request Money | Shop | Sell | Log Out | Help | UPS

406 Select an account type:

C New UPS Shipping Account
Register for a new UPS account to use with PayPal. With this account, shipments must be dropped off at an authorized UPS location or handed to a UPS driver.
Need a Daily Pickup Account?

408 Existing UPS Shipping Account
If you have an existing UPS account, enter your account number below to use your UPS account with PayPal.

410 UPS Account Number:

412 How many packages do you send in a week?
 Ground: Air:
 Check here if the following applies to you:

- Ship Hazardous Materials
- Ship High Value or Breakable Goods (see UPS Tariff Guide)
- Act as an Authorized Shipping Outlet

414 Contact Name: Brian Phillips
 Contact Title: (optional) (e.g., assistant)
 Street Address: 303 Bryant Street
 (no P.O. boxes)
 Rm., Fl., Apt.: Site: (optional)
 City: Mountain View
 State: CA
 Zip: 94041 (5 or 9 digits)
 Phone Number: 650 664 8000

If you have selected to register an existing UPS Account, you must enter the same contact information that you have on your UPS account or you will not be able to register for PayPal Shipping with UPS.

416

402

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402

Fig. 4b

1Q/18

PayPal®

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[My Account](#) [Send Money](#) [Request Money](#) [Merchant Tools](#) [Auction Tools](#)

[See Demo!](#)

Enter Shipping Options

Use PayPal Shipping to create, purchase, and print UPS shipping labels from your PayPal account. You'll enjoy the same great rates available at UPS counters; no additional fees! 

At this time, PayPal shipping with UPS is available only for transactions in which both the sender and recipient are in the United States.

Reminder: To qualify for PayPal's [Seller Protection Policy](#), payment must be received via PayPal and goods must be shipped to a buyer's confirmed address.

Address Information

Ship To:	502
Street:	504A
	504B
City:	506
State:	508
Zip:	510 (5 or 9 digits)
512	514
e-mail:	515
Ship From: Brian Phillips Brian Phillips 303 Bryant Street Mountain View CA 94041	
NEW ADDRESS	

Shipment Options

Service:	UPS Ground	522
524	<input type="checkbox"/> Saturday Delivery	526
Packaging:	Your Packaging	520
Weight:	lbs. (Not required for UPS Letter)	528
Dimensions:	in. X in. X in.	529
Insured Value (\$):	(optional)	530
Email message to Buyer:	(optional)	532
		534
		538
<input type="button" value="Continue"/>		540
<input type="button" value="Cancel"/>		

Fig. 5

500

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 My Account Send Money Request Money Shop Sell		Log Out Help	
<h2>Shipping Confirmation</h2> <p>Please confirm the shipping details below. To make changes, click Edit Options.</p> <p>Click Complete Shipping Order to generate the shipping label for your package. Your PayPal account will be charged the UPS Shipping fee and you will be taken to a page from which you can print the shipping label.</p>			
<p>Address Information</p> <p>Ship To: Giacomo DiGrigoli 182 Douglass St. San Francisco, CA 94114 Status: Confirmed address Residential</p> <p>Ship From: Brian Phillips Brian Phillips 303 Bryant Street Mountain View, CA 94041</p>		<p>Shipment Details</p> <p>Payment Method: PayPal Service: UPS Ground Package Type: Your Packaging Actual Weight: 2.00 lbs Package Dimensions: 10 in. x 12 in. x 8 in. Total Shipping Cost: \$4.43</p>	
<p>602</p>		<p>604</p>	
<p>Complete Shipping Order Edit Options Cancel</p>			

Fig. 6

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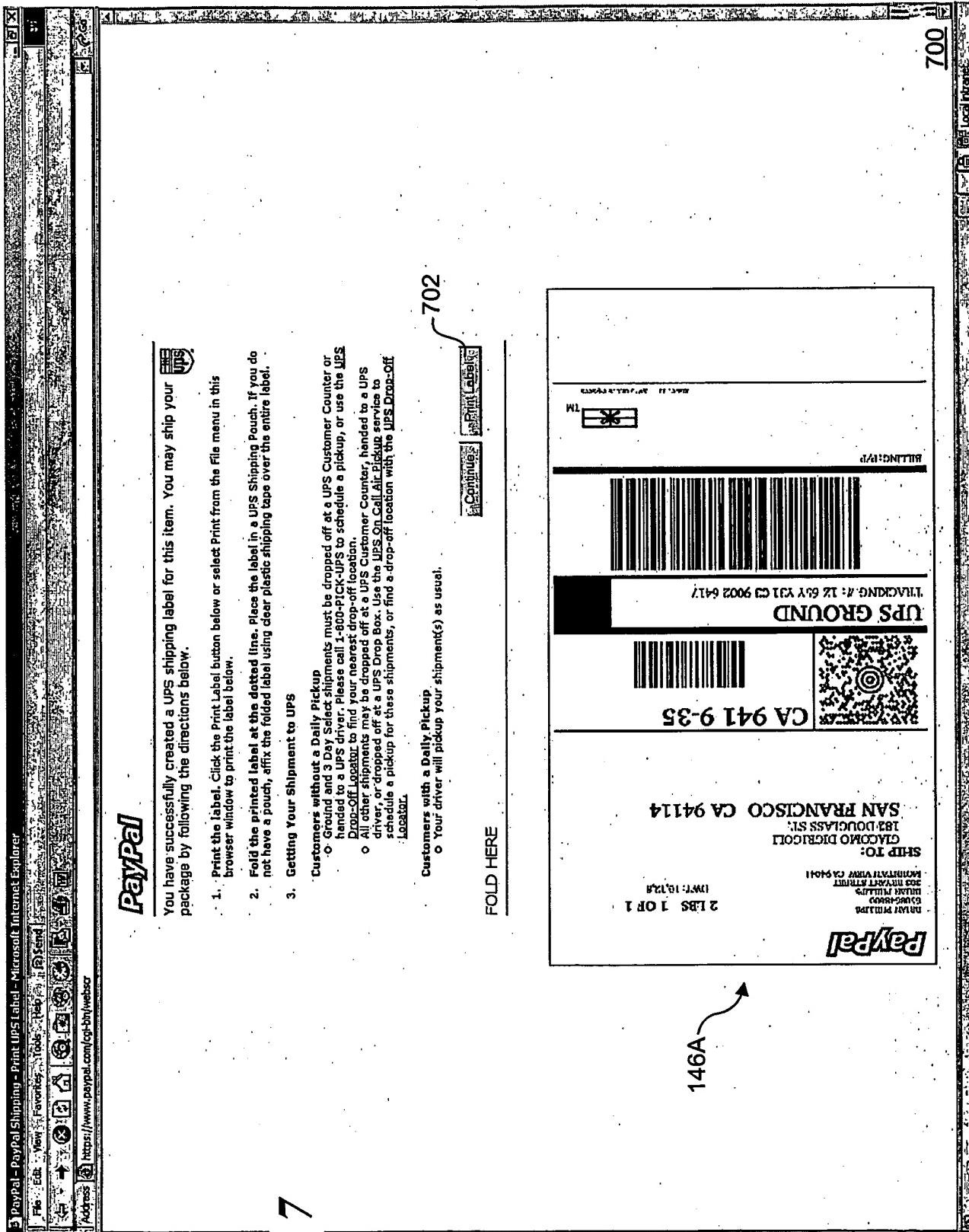


Fig. 7

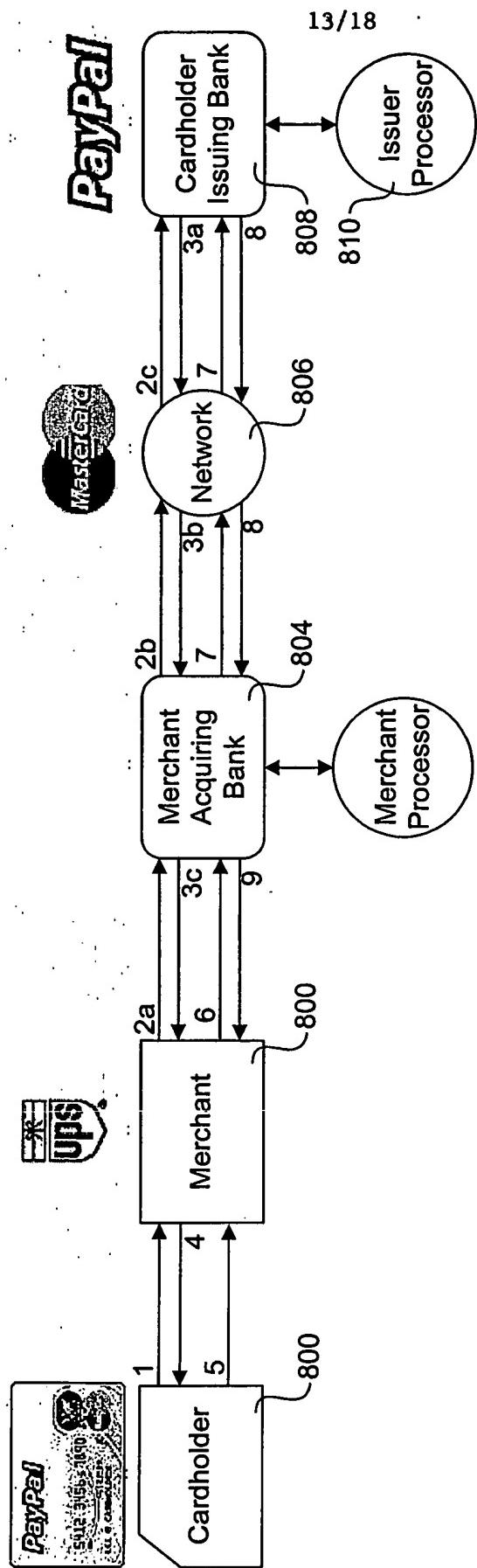
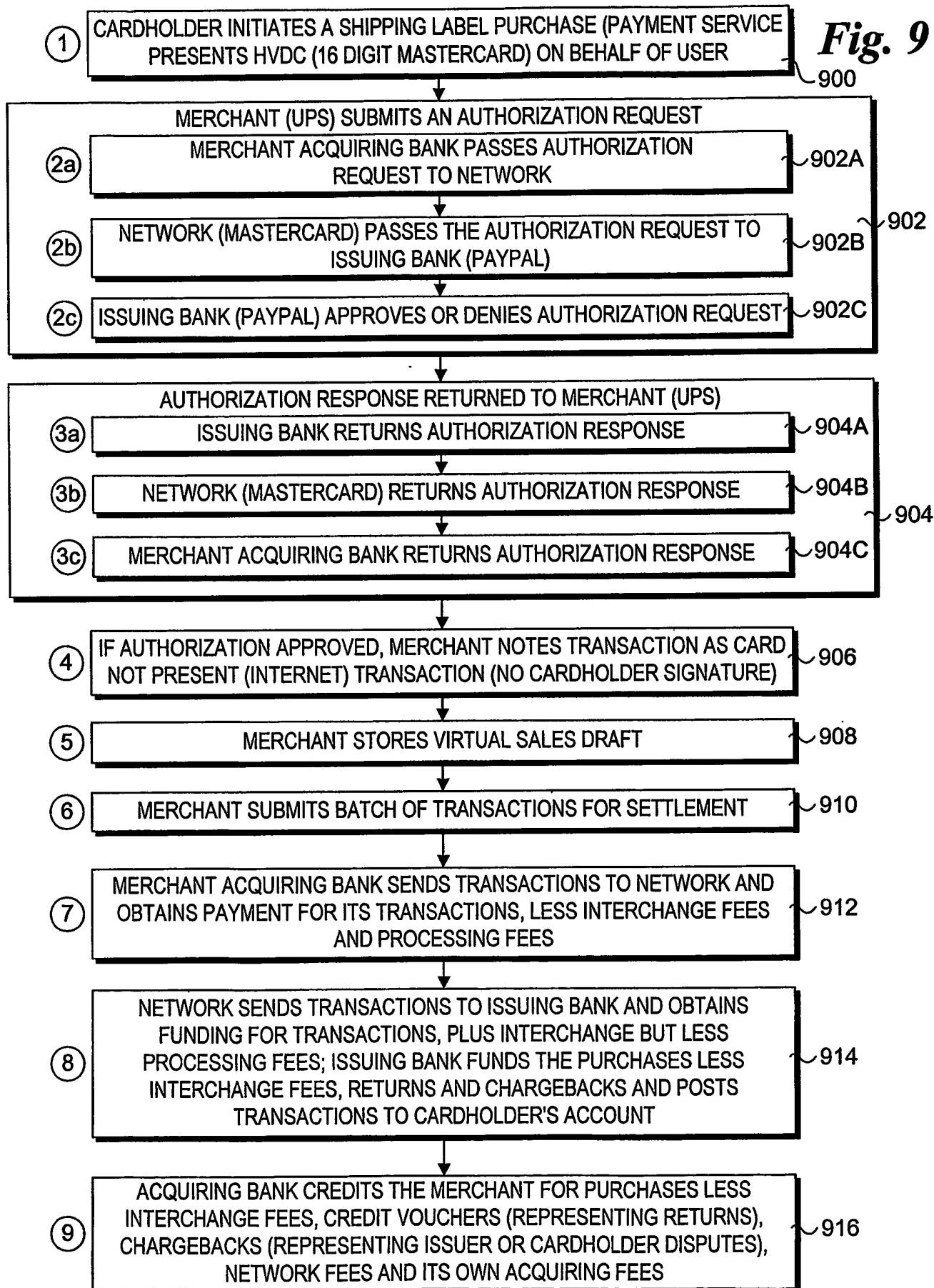


Fig. 8



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Fig. 10a

PayPal

Log Out | Help

Address: https://www.paypal.com/cgi-bin/webscr?cmd=_account

Name: Brian Phillips
Email: brianaphillips@hotmail.com (Add email)

Status: **Unverified**

Balance: \$70.57 [View Limits](#)

Earn a return on this balance!

Recent Activity [All Activity]

File	Type	To/From	Name/Email	Amount (\$)	Date	Status	Action
<input type="checkbox"/>	PayPal Services	To	UPS 800-742-5877 GA	-4.43	Jun 20, 2002	Pending	
<input type="checkbox"/>	Payment	From	Amy Rowe	50.00	Jun 20, 2002	Completed	Ship
<input type="checkbox"/>	Payment	From	Giacomo DiGrioli	20.00	Jun 20, 2002	Completed	Track Package
<input type="checkbox"/>	Payment	From	Denise	25.00	Jun 20, 2002	Completed	

[Selected Items](#) [Delete All](#)

306

310

300A

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Fig. 10b

Date	Status	Action	Description
Jun 20, 2002	Pending	Ship	Shipped to: SAN FRANCISCO, CA, US
Jun 20, 2002	Completed	Track Package	Service Type: GROUND
Jun 20, 2002	Completed	Completed	Tracking results provided by UPS: Jun 21, 2002 1:50 A.M. Eastern Time (USA)

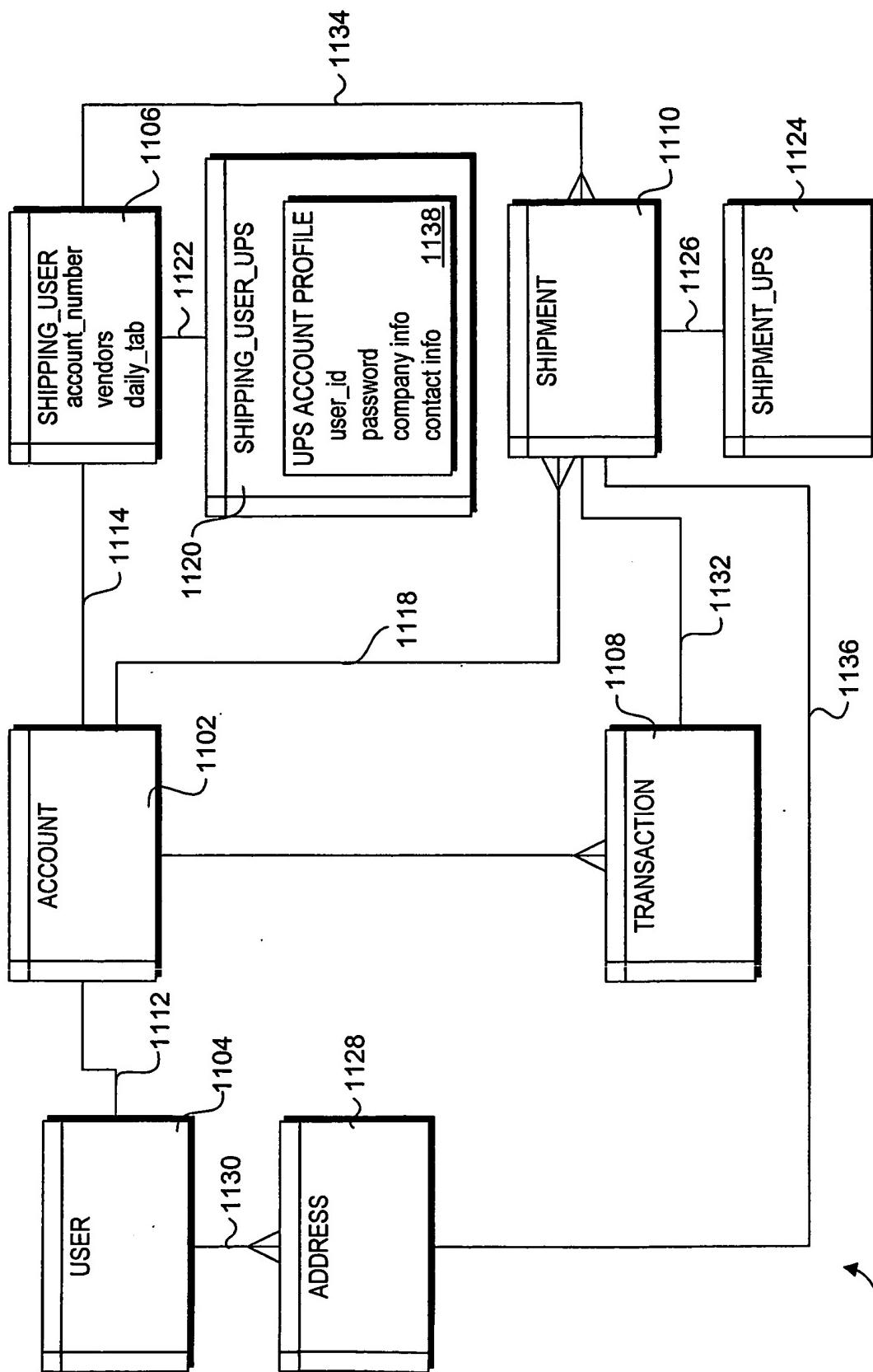
NOTICE: UPS authorizes you to use UPS tracking systems solely to track shipments tendered by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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[E-Business](#) | [Customer Service](#) | [About UPS](#) | [Site Guide](#) | [MY UPS.COM](#)

300A

Local Internet

*Fig. 11*

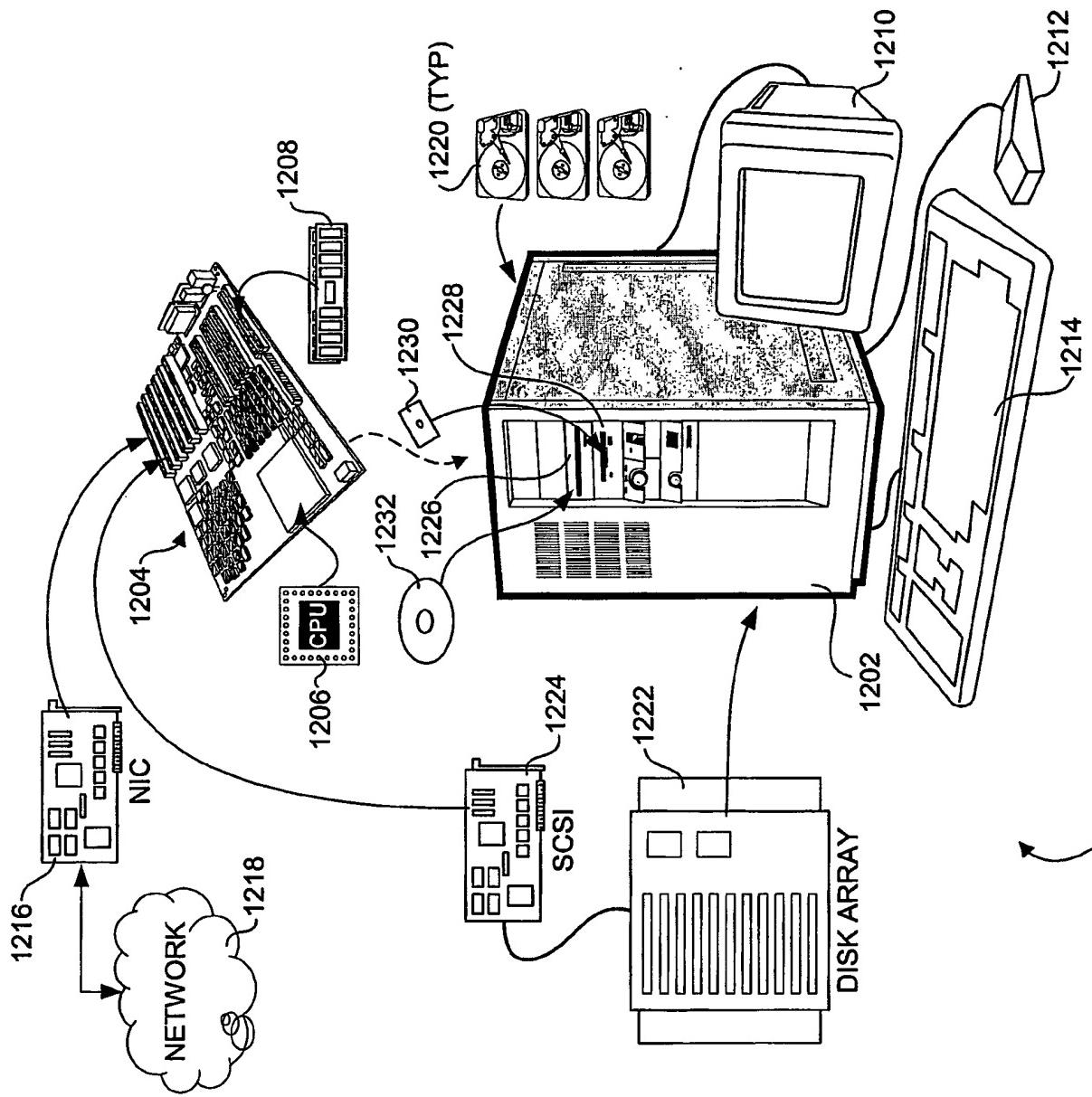


Fig. 12

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